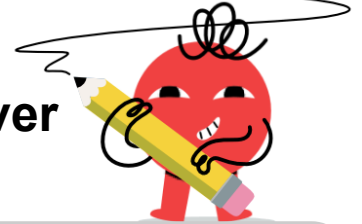




Algebra with Logarithms - Binomial over Binomial and Constant



1

Simplify and solve for y

$$\log_2 \left(\frac{y+8}{y-7} \right) = 4$$

A

B

$$y = 8 \quad y = 10$$

2

Simplify and solve for z

$$\log_2 \left(\frac{z+7}{z-7} \right) = 3$$

A

B

$$z = 8 \quad z = 9$$

3

Simplify and solve for t

$$\log_2 \left(\frac{t+7}{t-7} \right) = 3$$

A

B

$$t = 10 \quad t = 9$$

4

Simplify and solve for w

$$\log_2 \left(\frac{w+6}{w-8} \right) = 3$$

A

B

$$w = 10 \quad w = 11$$

5

Simplify and solve for z

$$\log_2 \left(\frac{z+7}{z-8} \right) = 4$$

A

B

$$z = 8 \quad z = 9$$

6

Simplify and solve for y

$$\log_4 \left(\frac{y+8}{y-7} \right) = 2$$

A

B

$$y = 9 \quad y = 8$$

7

Simplify and solve for n

$$\log_4 \left(\frac{n+7}{n-8} \right) = 2$$

A

B

$$n = 8 \quad n = 9$$

8

Simplify and solve for x

$$\log_2 \left(\frac{x-9}{x-2} \right) = 3$$

A

B

$$x = 1 \quad x = 2$$